ARTIFICIAL INTELLIGENCE
VOLUME 93, NUMBERS 1–2, JUNE 1997

Abstracted/Indexed in: ACM Computing Reviews, Applied Science and Technology Abstracts, Applied Science and Technology Index, CAD/CAM Abstracts, Cambridge Scientific Abstracts, Computer Abstracts, Current Contents: Engineering, Technology & Applied Science, Current Contents: Social & Behavioral Sciences, Engineering Index/Compendex, Information Science Abstracts, INSPEC Information Services, Mathematical Reviews, Science Citation Index, Social Sciences Citation Index, Sociological Abstracts, Zentralblatt für Mathematik

CONTENTS

P. Dagum and M. Luby
An optimal approximation algorithm for Bayesian inference 1

E. Schwalb and R. Dechter
Processing disjunctions in temporal constraint networks 29

A. Bondarenko, P.M. Dung, R.A. Kowalski and F. Toni
An abstract, argumentation-theoretic approach to default reasoning 63

D.G. Schwartz
Dynamic reasoning with qualified syllogisms 103

G. Amati, L.C. Aiello and F. Pirri
Definability and commonsense reasoning 169

J. Rickel and B. Porter
Automated modeling of complex systems to answer prediction questions 201

P. Liberatore and M. Schaerf
Reducing belief revision to circumscription (and vice versa) 261

T. Drakengren and P. Jonsson
Twenty-one large tractable subclasses of Allen's algebra 297

A. Deruyver and Y. Hodé
Constraint satisfaction problem with bilevel constraint: application to interpretation of over-segmented images (Research Note) 321

Special issue of the journal *Artificial Intelligence* on AI and Medicine (Invitation/Call for Papers) 337

Forthcoming Papers 339

Author Index 343

0004-3702(199706)93:1/2;1-P

Keep track of recently published papers via the journal's home page on the WWW: http://www.elsevier.nl/locate/artint